## Course Syllabus

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| **Code - Course Title** | **BYK504 - Metabolism II** |
| **Course Type** | II. SEMESTER |
| **Laboratory + Practice** | 3+0 |
| **ECTS** | **6.0** |
| **Language of Instruction** | Türkçe |
| **Course Type** | Required Courses |
| **Course Instructor(s)** | PROF. DR. ZERRİN SELLER |

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| **Mode of Delivery** | Face to face |
| **Prerequisites** | There is no prerequisite or co-requisite for this course. |
| **Courses Recomended** | Biochemistry |
| **Work Placement** | Not Applicable |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| **Week - 1** | | Digestion and transport of lipids | |
| **Week - 2** | | Intertissues relations in case of fasting | |
| **Week - 3** | | Intertissues relations in case of fasting | |
| **Week - 4** | | Combination of urea cycle with other cycles | |
| **Week - 5** | | Genetic definitions; Structure of DNA and replication | |
| **Week - 6** | | DNA denaturation | |
| **Week - 7** | | Repair of damage on DNA | |
| **Week - 8** | | RNA, Transcription and protein synthesis | |
| **Week - 9** | | Central dogma | |
| **Week - 10** | | Splicing mechanisms | |
| **Week - 11** | | Regulation of gene expression and induction and repression of proteins | |
| **Week - 12** | | Mutation types | |
| **Week - 13** | | Genetic codes | |
| **Week - 14** | | Genetic codes | |

## Learning Outcomes

| # | Learning Outcome |
|---|---|
| 1 | Explains the digestion of lipids and metabolism entry |
| 2 | Explains metabolic changes in case of fasting |
| 3 | Explains the formation mechanism of urea and its importance in the metabolism |
| 4 | Explains DNA and RNA structures, replication, transcription and translation |
| 5 | Explain gene expression and its importance |

## Sustainable Development Goals

*No content has been provided.*

## Course Theme

*No content has been provided.*

## AKTS Workload

| Activity | Duration (Hour) | Count | Workload |
|---|---|---|---|
| Teorik Derse Katılım | 0 | 0 | 0 |
| Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı) | 0 | 0 | 0 |
| Ödevler | 0 | 0 | 0 |
| Proje - Rapor - Sunum Hazırlama | 0 | 0 | 0 |
| Ara Sınav Hazırlığı (sınav süresi dahil) | 0 | 0 | 0 |
| Final Sınavı Hazırlığı (sınav süresi dahil) | 0 | 0 | 0 |
| Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.) | 0 | 0 | 0 |
| Staj Uygulaması | 0 | 0 | 0 |
| | | **Calculated ECTS** | **0** |

## Assessment Method and Passing Requirements

*No content has been provided.*